

MIKHAYLOV, D.S.

[Electrical nautical instruments] Elektronavigatsionnye pribory. Moskva, Gos. izd-vo vodnogo transporta, 1953. 412 p.
(Nautical instruments) (MLRA 7:8)

MIKHAYLOV, D. S.

"Gyroscopic Artificial Horizon for a Sextant"

Uch. zap. Vyssh. arkt. mor. uchilishcha, No 4, 1953, 91-113

The described instrument allows observing on high seas using only one visible celestial body. A horizontal rotar, a massive disk carrying a collimator, is fixed before the tube of the sextant. At high rotational speed of the rotor in the sextant tube an immobile Σ net of the collimator lines appears, from which the height of the celestial body is read. The accuracy is within 1-2' limits. (RZhAstr, No 10, 1955)

SO: Sum-No 787, 12 Jan 56

MIKHAYLOV, D.S.; BASOVA, A.K.

Improving the method of production of nicotineamide. Trudy VNIV
5:26-27 '54. (MLRA 9:3)

1. Khimiko-tekhnologicheskii otdel Lenfiliala.
(NICOTINEAMIDE)

MIRHAYLOV, D.T.

In the drive for grain. Nauka i pered.op.v sel'khoz. 7 no.6:15-17
Je '57. (MIRA 10:7)

(Ust'-Uyskoye District--Grain)

PETROCHENKO, P.F.; SHAPIRO, I.I.; MIKHAYLOV, D.V., inzh.; MOSINA, T.S., inzh.; PETRASHKO, E.S., inzh.; TISHIN, S.D., dotsent, kand.tekhn.nauk, red.; CHERNOVA, Z.I., tekhn.red.

[Time-norms used in the machinery industry for technical normalization of operations on drilling machines; small-lot and piece production] Obshchemashinostroitel'nye normativy vremeni dlia tekhnicheskogo normirovaniia rabot na sverlil'nykh stankakh; melkoseriinoe i edinichnoe proizvodstvo. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1959. 33 p. (MIRA 13:1)

1. Moscow. Nauchno-issledovatel'skiy institut truda. TSentral'noye byuro promyshlennykh normativov po trudu. 2. Glavnyy inzh. TSentral'nogo byuro promyshlennykh normativov po trudu pri Nauchno-issledovat.institute truda (for Petrochenko). 3. Zaveduyushchiy otdelom mashinostroyeniya TSentral'nogo byuro promyshlennykh normativov po trudu pri Nauchno-issledov.institute truda (for Shapiro). 4. TSentral'noye byuro promyshlennykh normativov po trudu pri Nauchno-issledovat.institute truda (for Mikhaylov, Mosina, Petrashko).
(Drilling and boring)

PETROCHENKO, P.F.; SHAPIRO, I.I.; MIKHAYLOV, D.V., inzh.; MOSINA, T.S.,
inzh.; PETRASHKO, A.S., inzh.; KHISIN, R.I., inzh., red.;
GORDEYEVA, L.P., tekhn.red.; CHERNOVA, Z.I., tekhn.red.

[Time-norms used in the machinery industry for technical
normalization of operations on shapers and slotters; small-lot
and piece production] Obshchemashinostroitel'nye normativy
vremeni dlia tekhnicheskogo normirovaniia rabot na strogal'nykh
i dolbeznykh stankakh; melkoseriinoe i edinichnoe proizvodstvo.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959.
46 p. (MIRA 13:1)

1. Moscow. Nauchno-issledovatel'skiy institut truda. TSentral'-
noye byuro promyshlennykh normativov po trudu. 2. Glavnyy inzh.
TSentral'nogo byuro promyshlennykh normativov po trudu pri Nauchno-
issledovatel'skom institute truda (TsBPNT) (for Petrochenko). 3. Za-
veduyushchiy otdelom mashinostroyeniya TSentral'nogo byuro pro-
myshlennykh normativov po trudu pri Nauchno-issledovatel'skom insti-
tute truda (for Shapiro). 4. TSentral'noye byuro promyshlennykh
normativov po trudu pri Nauchno-issledovatel'skom institute truda
(for Mosina, Petrashko).
(Metal cutting)

SHAPIRO, I.I.; MIKHAYLOV, D.K., inzh.; MOSINA, T.S., inzh.; PETRASHEK, E.S., inzh.; SLUCHAYEV, P.N., inzh.; PETROCHENKO, P.P.; KHISIN, R.I., red.; GORDEYEVA, L.P., tekhn.red.

[General engineering norms for metal cutting operations and time for technological standardization of machining on planing and slotting machines; lot production] Obshchemashinostroitel'nye normativy rezhimov rezaniya i vremeni dlia tekhnicheskogo normirovaniya rabot na strogal'nykh i dolbeznykh stankakh; seriinoe proizvodstvo. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1959. 95 p. (MIRA 12:12)

1. Moscow. Nauchno-issledovatel'skiy institut truda. TSentral'noye byuro promyshlennykh normativov po trudu. 2. TSentral'noye byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom institute truda (for all except Khisin, Gordeyev). 3. Zaveduyushchiy otделom mashinostroyeniya TSentral'nogo byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom institute truda (for Shapiro). 4. Glavnyy inzhener TSentral'nogo byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom institute truda (for Petrochenko).
(Metal cutting)

SHAPIRO, I.I.; MIKHAYLOV, D.V.; TSEYTS, I.E.; MOSINA, T.S., inzh.;
PETRASHKO, A.S., inzh.; KASHINTSEVA, L.M., inzh.; GVOZDEVA,
A.M., inzh.; SHVECHKOVA, A.S., tekhnik; SHANDLER, K.S.,
tekhnik; EL'KIND V.D., tekhn.red.

[General norms of cutting conditions and time used in the machinery industry for technical standardization of machining on milling machines; lot production] Obshchemashinostroitel'nye normativy rezhimov rezaniya i vremeni dlia tekhnicheskogo normirovaniya rabot na frezernykh stankakh; seriinoe proizvodstvo. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 269 p.

(MIRA 13:1)

1. Moscow. Nauchno-issledovatel'skiy institut truda. TSentral'-noye byuro promyshlennykh normativov po trudu. 2. Zaveduyushchiy otdelom mashinostroyeniya TSentral'nogo byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom institute truda (for Shapiro). 3. TSentral'noye byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom institute truda (for all except El'kind).

(Milling machines)

SHAPIRO, I.I.; MIKHAYLOV, D.V.; TSEYTS, I.E.; MOSINA, T.S., inzh.;
PETRASHKO, A.S., inzh.; KASHINTSEVA, L.M., inzh.; GVOZDEVA,
A.M., inzh.; SHVECHKOVA, A.S., tekhnik; SHANDLER, K.S., tekhnik;
MODEL', B.I., tekhn.red.

[General engineering norms for metal cutting operations and
time for technological standardization on machining on milling
machines; large-lot and mass production] Obshchemashinostroi-
tel'nye normativy rezhimov rezaniya i vremeni dlia tekhnii-
cheskogo normirovaniya rabot na frezernykh stankakh; krupno-
seriinoe i massovoe proizvodstvo. Moskva, Gos.nauchno-tekhn.
izd-vo mashinostroit.lit-ry, 1959. 306 p. (MIRA 12:12)

1. Moscow. Nauchno-issledovatel'skiy institut truda. TSentral'noye
byuro promyshlennyykh normativov po trudu. 2. Zaveduyushchiy otde-
lom mashinostroyeniya TSentral'nogo byuro promyshlennyykh normativov
po trudu pri Nauchno-issledovatel'skom institute truda (for Shapiro).
3. TSentral'noye byuro promyshlennyykh normativov po trudu pri Nauchno-
issledovatel'skom institute truda (for all except Model').
(Metal cutting)

PETROCHENKO, P.F.; SHAPIRO, I.I.; MIKHAYLOV, D.V., inzh.; MOSINA, T.S., inzh.; PETRASHKO, E.S.; TISHIN, S.D., dotsent, kand.tekhn.nauk, red.; DOBRITSYNA, R., tekhn.red.

[General engineering time norms for the technical standardization of machining processes on drilling machines; small-lot and piece production] Obshchemashinostroitel'nye normativy vremeni dlia tekhnicheskogo normirovaniia rabot na sverlil'nykh stankakh; melko-seriinoe i edinichnoe proizvodstvo. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1960. 34 p.

(MIRA 14:1)

1. Moscow. Nauchno-issledovatel'skiy institut truda. TSentral'noye byuro promyshlennykh normativov po trudu. 2. Glavnyy inzhener TSentral'nogo byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom institute truda (for Petrochenko). 3. Zaveduyushchiy otdelom mashinostroyeniya TSentral'nogo byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom institute truda (for Shapiro). 4. TSentral'noye byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom institute truda (for Mikhaylov, Mosina, Petrashko).

(Drilling and boring)

SHAPIRO, I.I.; MIKHAYLOV, D.V., inzh.; MOSINA, T.S., inzh.; YEVLANPIYEVA, V.M., red.; SHANDLER, K.S., inzh.; SOROKINA, G.Ye., tekhn.red.

[General engineering time norms for technical standardization of operations on lathes; small lot and piece production] Obshcheshinostroitel'nye normativy vremeni dlia tekhnicheskogo normirovaniia rabot na tokarnykh stankakh; melkoseriinoe i edinichnoe proizvodstvo. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 152 p. (MIRA 13:12)

1. Moscow. Nauchno-issledovatel'skiy institut truda. TSentral'noye byuro promyshlennykh normativov po trudu. 2. Zaveduyushchiy otdelom mashinostroyeniya TSentral'nogo byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom institute truda (for Shapiro). 3. TSentral'noye byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom institute truda (for Mikhaylov, Mosina, Yevlampiyeva, Shandler). (Turning)

SHAPIRO, I.I.; MIKHAYLOV, D.V.; MOSINA, T.S., inzh.; YEVlampIYEVA, V.M., inzh.; KASHINTSEVA, L.M., inzh., red.; BLIZHEVSKIY, L.A., inzh., red.; SEREBRYAKOV, V.M., inzh., red.; KHARITONOV, A.B., inzh., red.; GLINKA, N.T., inzh., red.; KHISIN, R.I., inzh., red.; SOROKINA, G.Ye., tekhn.red.

[General engineering norms for cutting conditions and time for use in the technical standardization of machining on lathes; lot production] Obshchemashinostroitel'nye normativy rezhimov rezaniya i vremeni dlya tekhnicheskogo normirovaniya rabot na tokarnykh stankakh; seriynee proizvodstvo. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 224 p. (MIRA 13:12)

1. Moscow. Nauchno-issledovatel'skiy institut truda. TSentral'noye byuro promyshlennykh normativov po trudu. 2. Zaveduyushchiy otdelom mashinostroyeniya TSentral'nogo byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom institute truda (for Shapiro).
3. TSentral'noye byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom institute truda (for Mikhaylov, Mosina, Yevlampiyeva).
4. Nauchno-issledovatel'skoye byuro tekhnicheskikh normativov (for Kashintseva, Blizhevskiy).
5. Stankozavod im. S.Ordzhonikidze (for Serbryakov).
6. Moskovskiy stankostroitel'nyy zavod (for Kharitonov).
7. Vsesoyuznyy proyektno-tekhnologicheskiy institut Tyazhmash (for Glinka).

(Metal cutting)

(Lathes)

MIKHAYLOV, D.V.; VINNIK, L.M.; SLUCHAYEV, P.N.; SULYAGIN, V.I.;
BARYKOVA, G.I., red.izd-va; GORDEYEVA, L.P., tekhn.red.

[Norms for the wear, strength and consumption of metal-cutting tools] Normy iznosa, stoikosti i raskhoda rezhushchego instrumenta. Moskva, Gos.nauchno-tokhn.izd-vo mashinostroit.lit-ry, 1961. 174 p.

(MIRA 15:2)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye nauchno-issledovatel'skikh i proyektnykh organizatsiy. Nauchno-issledovatel'skoye byuro tekhnicheskikh normativov. 2. Nauchno-issledovatel'skoye byuro tekhnicheskikh normativov (for Mikhaylov, Vinnik, Sluchayev, Sulyagin).
(Metal-cutting tools--Standards)

1. MIKHAYLOV, D. Ya.
2. USSR (600)
4. Soil Surveys-Kirghizistan
7. Results of the study of soils of the Kirghiz S.S.R. Izv. KirFAN SSSR. No. 7, 1947.
9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

MIKHAYLOV, D. YA.

Mikhaylov, D. Ya. - "The soils of Kirgizia and their erosion", Trudy Sektora pochvovedeniya (Kirgiz. filial Akad. nauk SSSR), Issue 1, 1948, p. 7-55; - Bibliog: 70 items.

SO: U-411, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 20, 1949).

MIKHAYLOV, D. YA.

Mikhaylov, D. Ya. - "The erosion of soils in the Kirgiz SSR", Trudy Sektora pochvovedeniya (Kirgiz. filial Akad. nauk SSSR), Issue 1, 1948, p. 57-67, - Bibliog: 8 items.

SO: U-411, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 20, 1949).

1. MIKHAYLOV, D. Ya.
2. USSR (600)
4. Erosion - Chu Valley
7. Development of erosion in the Chu Valley and fundamental measures for its control.
Trudy Sek.pochv.KirFAN SSSR no. 2, 1949.

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

1. MIKHAYLOV, D Ya.
2. USSR (600)
4. Erosion - Chu Valley
7. Using erosion processes for improving land by silt deposition. Trudy Ssk.pochv. KirFAN SSSR no. 2, 1949.
9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

MIKHAYLOV, D.Ya.

Soil Science Section after five years. Trudy Otd.pochv.KirFAN
SSSR no.4:3-5 '53. (MLBA 9:11)
(Kirghizistan--Soil research)

MIKHAYLOV, D.Ya.

~~POSSIBILITY OF SIMULTANEOUS CONTROL OF SOIL EROSION AND SALINIZATION~~
Possibility of simultaneous control of soil erosion and salinization.
Trudy Otd.pochv.KirFAN SSSR no.4:45-52 '53. (MLRA 9:11)
(Soviet Central Asia--Soil conservation)

COUNTRY : USSR J
 CATEGORY : Soil Science. Fertilizers.
 ABS. JOUR. : IZV. Akad. Nauk SSSR, No. 4, 1956, No. 1144
 AUTHOR : I. I. Kuvshinov, N. Y. Kuvshinov.
 INSTIT. : Kirgiz. Acad. Inst.
 TITLE : On the question of the reclamation of the
 gravelly areas of the Kirgiz SSR. (Russian)
 ORIG. PUB. : Tr. Kirg. nauch.-issled. inst., 1956, vyp. 9, 3-9
 SUMMARY : It has been shown that the gravelly areas
 in the foothill zone of the Kirgiz SSR can
 be used for agricultural crops through silt-
 ing. Controlling the flow of water makes it possible
 to wet plots of the required diameter together
 the silted land parcels. This eliminates the
 formation of a much larger and the formation of
 takyrs on the reclaimed plots. The very best
 methods of silting the gravel deposits are
 examined.--P.V. Spranko

Card: 1/1

MIKHAYLOV, D.Ya.

Reclamation of pebblestone areas in Central Asia [with English summary in insert]. Pochvovedenie no.10:9-12 0 '56. (MIRA 10:1)

1. Kirgizskiy sel'skokhozyaystvennyy institut, g.Frunse.
(Soviet Central Asia--Reclamation of land)

CATEGORY : Soil Science. Soil Genesis and Geography.
ABS. JOUR. : RZhBiol., No. 5, 1959, No. 20010
AUTHOR : Mikhaylov, D. Ya.
TITLE : Kirgiz Agricultural Institute
TITLE : Soil Classification of the Foothill Slope Zone
of the Kirgiz Range.
ORIG. PUB. : Tr. Kirg. s.-kh. in-ta, 1957, vyp. 10, No. 1, 101-
104
ABSTRACT : It is suggested that the so-called Semirechen-
skiy, northern ordinary and northern light
Sierozem soils which occur in the foothill
slope zone of the Kirgiz Range be termed north-
eastern mountain-valley Sierozems, further
subdivided into pre-mountainous dark, light
valley and low carbonate soils.--P.V. Shramko

CARD: 1/1

MIKHAYLOV, Daniil Yakovlevich, doktor sel'skokhoz.nauk; NOSOVETS, P.G.,
red.; TYURYAYEV, M.A., tekhn.red.

[Soil erosion in the Kirghiz S.S.R.] Eroziia pochv v Kirgizskoi
SSR. Frunze, Kirgizskoe gos.izd-vo, 1959. 190 p. (MIRA 13:9)
(Kirghizistan--Erosion)

MIKHAYLOV, E. (g.Lipetsk)

Great changes. MTO no.2:48-49 P '59.
(Lipetsk--Iron--Metallurgy)

(MIRA 12:2)

MIKHAYLOV, E. A.

E. A. Mikhaylov, "On Increasing the Accuracy of Mechanisms by Means of Control Methods."

paper presented at the 2nd All-Union Conf. on Fundamental Problems in the Theory of Machines and Mechanisms, Moscow, USSR, 16-17 March 1970

GLADKIY, M.I. [deceased]; SHANIN, G.A.; IODKO, Ye.K.; MANAYENKOV, S.D.; MIKHAYLOV, E.A.; GRIBOVA, Ye.N.; LUGOVSKIY, P.P.; KULESHOV, S.M.; SHATOV, A.I.; SHNYREVA, N.N.; ISKOVA, V.M.; LYKOV, A.I.; TYULYAYEV, A.N., *otv. red.*; SIDOROVA, T.S., *red.*; SHEFER, G.I., *tekhn. red.*

[Determining the economic efficiency of new machinery in the communication system] *Opredelenie ekonomicheskoi effektivnosti novoi tekhniki v khoziaistve svyazi; informatsionnyi sbornik.* Moskva, Svyaz'izdat, 1962. 174 p. (MIRA 16:3)
(Communication and traffic--Technological innovations)

MIKHAYLOV, F., inzh.

Adaptation of ponds for fish culture. Ser. stroi. 17 no.4:
20-21 Ap '63. (MIRA 16:7)

(Fishponds)

MIKHAYLOV, F.A.

SOLODOVNIKOV, V.V.; professor, doktor tekhnicheskikh nauk, redaktor;
AYZHERMAN, M.A., doktor tekhnicheskikh nauk; BASHKIROV, D.A., kandidat
tekhnicheskikh nauk; BROMBERG, P.V., kandidat tekhnicheskikh nauk;
VORONOV, A.A., kandidat tekhnicheskikh nauk, dotsent; GOL'DFARB, L.S.,
doktor tekhnicheskikh nauk, professor; KAZAKHIVICH, V.V., doktor tekhnicheskikh nauk; KRASOVSKIY, A.A., kandidat tekhnicheskikh nauk,
dotsent; LERNER, A.Ya., kandidat tekhnicheskikh nauk; LETOV, A.M.,
doktor fiziko-matematicheskikh nauk; professor; MATVEYEV, P.S.,
inzhener; MIKHAYLOV, F.A., kandidat tekhnicheskikh nauk; PETROV, B.N.;
PETROV, V.V., kandidat tekhnicheskikh nauk; POSPELOV, G.S., kandidat
tekhnicheskikh nauk, dotsent; TOPCHAYEV, Yu.I., inzhener; ULANOV,
G.M., kandidat tekhnicheskikh nauk; KHRAMOV, A.V., kandidat tekhnicheskikh nauk; TSYPKIN, Ya.Z. doktor tekhnicheskikh nauk, professor;
LOSSIYEVSKIY, V.L., doktor tekhnicheskikh nauk, professor, retsensent;
TIKHONOV, A.Ya., tekhnicheskiy redaktor

[Fundamentals of automatic control; theory] Osnovy avtomaticheskogo
regulirovaniya; teoriya. Moskva, Gos. nauchno-tekhn. izd-vo mashino-
stroit. lit-ry, 1954. 1116 p. (MLRA 8:2)

1. Chlen-korrespondent AN SSSR (for Petrov, B.N.)
(Automatic control)

MIKHAYLOV, F.A., kandidat tekhnicheskikh nauk.

Quasi-periodic vibrations of linear dynamic systems having single
degree of freedom. Trudy MAI no.75:103-122 '57. (MLBA 10-1)
(Vibration) (Differential equations, Linear)

MIKHAYLOV, F. A.

PHASE I BOOK EXPLOITATION

SOV 3397
SOV 11-M-000

Moscow. Aviatsionnyy institut imeni Sergo Ordzhonikidze

Nekotoryye metody rascheta sistem avtomaticheskogo regulirovaniya i ikh elementov, sbornik statey (Some Methods of Calculating Automatic Control Systems and Their Components; Collection of Articles) Leningrad, Sudpromgiz, 1959. 13 p. (Series: Its: Trudy, vyp. 112) Errata slip inserted. 8,400 copies printed

Scientific Ed.: B.N. Petrov; Ed. (Title page): B.N. Petrov, Corresponding Member USSR Academy of Sciences, Professor; Ed. (Inside book): V.S. Chichkanova; Tech. Ed.: N.V. Erastova.

PURPOSE: This collection of articles is intended for specialists in scientific research institutes and special design bureaus and plants engaged in problems of automatic regulation. It may also be useful to students and teachers in schools of higher education.

COVERAGE: This collection of articles presents original works in the field of analysis and synthesis of nonlinear systems of automatic regulation and of linear systems with variable parameters. Some problems of calculating individual components of automatic systems are also discussed. References are listed after most of the papers.

Card 1/7

MIKHAYLOV F. A

Some Methods of Calculating (Cont.)

SOV/3397

*Mikhaylov, F.A., Candidate of Technical Sciences. Theory of Free Oscillations of Linear Systems With Variable Parameters

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The author applies the theory proposed, in 1948, by T. Wazewski and later developed in the works given as references, in the analysis of free oscillations of linear systems of one individual class. In further development of the theory, a method is presented of establishing as many exact evaluations of parameters of free oscillations as is practical (in a finite time interval). The article is presented so that a prerequisite knowledge of works given as references is not necessary.

Bibliography

105

Lebedev, A.A., Doctor of Technical Sciences. Motion Stability in the Final Time Interval

106

Card 6/9

nikolayev, F.A.

PHASE I BOOK EXPLOITATION

SOV/4607

Moscow. Aviatsionnyy institut im. Sergo Ordzhonikidze

Nekotoryye voprosy analiza i sinteza sistem avtomaticheskogo regulirovaniya;
sbornik statey (Problems in the Analysis and Synthesis of Automatic Control
Systems; Collection of Articles) Moscow, Oborongiz, 1960. 74 p.
(Series: Its: Trudy, vyp. 121) Errata slip inserted. 6,150 copies printed.

Sponsoring Agencies: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya
RSFSR; Moskovskiy ordena Lenina aviatsionnyy institut im. Sergo Ordzhonikidze.

Ed. (Title page): B.N. Petrov, Corresponding Member, Academy of Sciences USSR,
Doctor of Technical Sciences, Professor; Managing Ed.: A.S. Zaymovskaya.
Engineer; Ed. (Inside book): V.M. Tokar'; Tech. Ed.: I.M. Zudakin.

PURPOSE: This collection of five articles is intended for scientific, engineer-
ing and technical personnel at plants, design offices and scientific research
institutes, and for teachers and students of advanced courses at schools of
higher education.

Card 1/3

Problems in the Analysis and Synthesis (Cont.)

SCV/4607

COVERAGE: The articles discuss procedures for synthesizing linear automatic control systems, analyzing free oscillations of linear systems with variable parameters, calculating the design parameters of a ferroresonant circuit in order to obtain a relay action, and investigating the stability of linear and some nonlinear systems by using the energy method. The method for the synthesizing of systems makes it possible to determine the desired amplification factor of the system in the open condition, and the layout and parameters of parallel compensating devices and their connection, so as to satisfy the technical requirements imposed on the characteristics of the transient process. Some of the articles in the collection develop existing methods, while others present new methods for investigating automatic control systems with variable parameters. The methods presented may be used for the solution of a number of problems in the theory of oscillations of linear and nonlinear systems. Special consideration is given to the application of methods for the construction of approximate representations of the general solution of the equation of free oscillations. No personalities are mentioned. There are 16 references, all Soviet.

TABLE OF CONTENTS:

Foreword

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Sokolov, N.I. [Candidate of Technical Sciences] Some Problems in the Selection of Design Configurations and Parameters of Aircraft Control Systems 5
Card 2/3

PHASE I BOOK EXPLOITATION

SOV/5654

Mikhaylov, Fedor Andreyevich

Svobodnyye kolebaniya lineynykh sistem s peremennymi parametrami (Free Vibrations of Linear Systems With Variable Parameters) Moscow, Oborongiz, 1961. 269 p. (Series: Moscow. Aviatsionnyy institut. Trudy, vyp. 135) Errata slip inserted. 4,100 copies printed.

Sponsoring Agency: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya RSFSR. Moskovskiy ordena Lenina aviatsionnyy institut imeni Sergo Ordzhonikidze.

Ed.: S.I. Bumshteyn, Engineer; Ed. of Publishing House: S.D. Antonova; Tech. Ed.: L.A. Garnukhina; Managing Ed.: A. S. Zaymovskaya, Engineer.

PURPOSE: This book is intended for scientific workers and engineers who must solve problems of vibration theory. The book will also be useful to specialists in flight dynamics and automatic control.

COVERAGE: The book presents basic vibration theory for linear systems with

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Free Vibrations of Linear Systems (Cont.)

SOV/5654

variable parameters, reviews results of investigations on vibration stability, and discusses methods of vibration analysis in a finite time interval. The author thanks Academician B.N. Petrov, A. I. Averbukh, S.M. Alferov, L.N. Bol'shev, G.N. Duboshin, A.A. Lebedev, A.M. Letov, G.N. Sveshnikov, and V.V. Solodovnikov. There are 48 references: 41 Soviet (including one translation), 4 English, 2 German, and 1 French.

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E140/E435

AUTHOR Mikhaylov, F.A. Candidate of Technical Sciences
TITLE On the stability of oscillations in linear systems
with variable parameters
SOURCE Moscow Aviatsionnyy institut Trudy no 139 1961
Voprosy avtomaticheskogo regulirovaniya
dvizhushchikhsya ob"yektov 39-70

TEXT The article presents a method for analysing stability of oscillation in a system whose description reduces to a single n -th order linear homogeneous differential equation with variable coefficients (functions of time). The time is defined on a semi-infinite interval $[0, \infty]$, while the coefficients $b_1(t)$ are real, continuous and at least once differentiable on some interval (t_0, ∞) . The author first defines the terms stability, instability and asymptotic stability of oscillation. An oscillation is stable if all particular solutions of the differential equation are bounded for arbitrary initial conditions defined in a pre-assigned region, it is unstable if there is at least one solution which increases without bound and asymptotically

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On the stability of oscillations ...

stable with respect to a quantity x if for all solutions

$$\lim_{t \rightarrow \infty} |x(t)| = 0$$

To determine this behaviour, the equation of free oscillations can be transformed to an equivalent system of first order linear differential equations by means of linear "canonical" substitutions relating the variable x and its derivatives to new variables. Two cases are considered, those in which the coefficients of the equation are continuous and differentiable and those in which they are continuous and differentiable a "sufficiently large number of times". For the first case, a system of equations is obtained which, for each fixed value of t , can be considered as a system of linear inhomogeneous algebraic equations in the new variables considered as unknowns. The assumption has been made that for all values of t sufficiently large, the roots of the canonical equation of free oscillation are simple. Then the system of equations obtained is consistent and can be solved with respect to the unknowns. When the roots of the equation of free

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On the stability of oscillations

oscillations are themselves functions of time, and for the second case always, the situation is more complicated. A method is given for the successive approximation of these functions. A formula is given for an upper bound of the modulus of particular solutions of the equation of oscillation in terms of u_n , the maximum characteristic number of the Hermitian of the canonical form of the system equation. The estimate is given by

$$|x(t)| \leq \sqrt{nr(t_0)} \exp \int_{t_0}^t u_n dt \quad (18)$$

From this a sufficient condition for stability is obtained as follows for oscillation to be stable. It is sufficient that the integral

$$\int_{t_0}^t u_n dt$$

remain bounded from above as $t \rightarrow \infty$. In Eq. (18), the norm r is defined in terms of the canonical components by the expression

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On the stability of oscillations

$$r = \begin{cases} \sqrt{(y_1)^2 + \dots + (y_n)^2} \\ \sqrt{(z_1)^2 + \dots + (z_n)^2} \end{cases} \quad (15)$$

where the y_1 or z_1 are the canonical components. The author then introduces the concept of phase coefficients of a nontrivial solution of the system of canonical equations e_1 defined by

$$\begin{cases} y_1 \\ z_1 \end{cases} = re_1 \quad (i = 1, 2, \dots, n) \quad (20)$$

The relationship between the logarithmic derivatives of the norm of a solution of the system of canonical equations and the phase coefficients is then established. A set of differential equations permitting the phase coefficients to be found is then derived. An estimate from above is necessary for finding sufficient conditions. To define necessary conditions, estimates from below are obtained. These are obtained using the same apparatus as before. Theorems are obtained defining stability criteria for

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On the stability of oscillations ... E140/E435

ordinary and asymptotic stability in terms of integrals with respect to time of the roots λ_i or γ_i of the equation of free oscillations

$$\lim_{t \rightarrow \infty} \int_T^t \operatorname{Re} \gamma_i dt = -\infty \quad (i = 1, 2, \dots, n) \quad (59)$$

$$\lim_{t \rightarrow \infty} \int_T^t \operatorname{Re} \lambda_i dt = -\infty \quad (i = 1, 2, \dots, n) \quad (60)$$

A particular case $\ddot{x} + ct^v x = 0$ is examined in conclusion. There are 2 figures and 7 references: 5 Soviet-bloc and 2 non-Soviet-bloc. The reference to an English language publication reads as follows: Ref. 7: Wintner A. Amer. Journ. of Mathem., v. 57, no. 1, 1957.

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33192

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E140/E435

AUTHORS Mikhaylov, F.A., Candidate of Technical Sciences.
Stromilov, V.M., Candidate of Technical Sciences

TITLE On the dynamic precision of automatic longitudinal stabilization of a winged flying apparatus in a perturbed atmosphere

SOURCE Moscow. Aviatsionnyy institut Trudy no.139 1961
Voprosy avtomaticheskogo regulirovaniya
dvizhushchikhsya ob"yektov. 87-107

TEXT The authors attempt to give a quantitative criterion of the dynamic precision of stabilization of a flying apparatus for longitudinal motion of the apparatus. The questions of stability are not considered and it is assumed that the system is stable. The author first derives the equations of motion of an aircraft in perturbed atmosphere from the equations in the undisturbed atmosphere. These equations are then linearized by means of Taylor series expansions limited to the first terms. The assumption is made that in horizontal flight the mean value of the vertical component of the wind is equal to zero while the mean

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On the dynamic precision of automatic

value of the horizontal component is non vanishing. The linearized equations are then reduced to dimensionless form. Using the Laplace transform with zero initial conditions the transfer functions with respect to wind perturbations of a flying apparatus without automatic control are found. The author then passes to consideration of the same system with automatic flight stabilization. Ideal dynamic stabilization is defined for the case where the flight trajectory is a horizontal straight line and there are no angular oscillations of the apparatus. This reduces to two conditions: rectilinear motion of the centre of gravity and absence of angular oscillations about the centre of gravity. By a verbal argument the authors show that these two conditions are inconsistent and ideal stabilization in a perturbed atmosphere even in the case of absence of a vertical wind component cannot be realized. In principle it would be possible to build a stabilizer which would realize ideal stabilization under fixed flying regime. However such servomechanisms would be very complicated and would have to be readjusted for each change of regime. Therefore real flight stabilizers are built on simpler

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On the dynamic precision of automatic

principles, general to the majority of automatic controls. The authors derive the transfer functions of an aircraft equipped with auto pilot for both horizontal and vertical wind components. In estimating the precision of longitudinal stabilization under random wind conditions the initial conditions are neglected since their effect diminishes with time and becomes negligible compared with the duration of a real flight. Considering the wind velocity distribution in time as a stationary random process the criterion of stabilization precision is given in terms of the mean-square deviation of the pitch angle

$$(\Delta \varphi)_{CK} = \sqrt{\frac{1}{\pi V} \int_0^{\infty} |W_{\varphi B}(j\omega)|^2 S_{\varphi B}(\omega) d\omega} \quad (36)$$

where $W_{\varphi B}(s)$ is the transfer function of the system and $S_{\varphi B}(\omega)$ is the spectral density of the stationary process. It is clearly desirable to design an auto-pilot to minimize Eq. (36). Unfortunately since this is a function of statistical

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processes independent of the aircraft which vary over wide limits this can only be done by broadening the criterion to the point where it becomes independent of the external perturbations Such a condition is given by

$$\int_0^{\infty} |W_B(j\omega)|^2 d\omega = \min \quad (44)$$

The quantity

$$\epsilon = \frac{1}{\pi} \int_0^{\infty} |W_B(j\omega)|^2 d\omega \quad (45)$$

has been termed the degree of mobility of the system. The authors then present a method for calculating the degree of mobility in terms of the system parameters and coefficients There are 1 figure and 4 Soviet-bloc references

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X

MIKHAYLOV, F.A. (Moskva)

Method for analyzing the stability of the oscillations of
linear systems with variable parameters. Izv. AN SSSR.
Tekh. kib. no.4:171-179 J1-Ag '63. (MIRA 16:11)

ACCESSION NR: APL033970

S/0140/64/000/002/0120/0126

AUTHOR: Mikhaylov, F. A. (Moscow)

TITLE: Two theorems in the theory of a linear homogeneous differential equation

SOURCE: IVUZ. Matematika, no. 2, 1964, 120-126

TOPIC TAGS: linear homogeneous differential equation, differentiable complex function

ABSTRACT: The author considers

$$\frac{d^n x}{dt^n} + b_1(t) \frac{d^{n-1} x}{dt^{n-1}} + \dots + b_n(t) x = 0 \quad (1)$$

where t is a real variable, $b_1(t)$ are real continuous functions. This is transformed into a system of linear homogeneous first order differential equations according to

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$$\left. \begin{aligned} x &= z_1 + \dots + z_n, \\ \frac{dx}{dt} &= \zeta_1 z_1 + \dots + \zeta_n z_n, \\ \frac{d^2 x}{dt^2} &= [(\zeta_1 + p)\zeta_1] z_1 + \dots + [(\zeta_n + p)\zeta_n] z_n, \\ &\dots \dots \dots \\ \frac{d^{n-1} x}{dt^{n-1}} &= [(\zeta_1 + p)^{n-2} \zeta_1] z_1 + \dots + [(\zeta_n + p)^{n-2} \zeta_n] z_n. \end{aligned} \right\} \quad (2)$$

where $\zeta_1, \dots, \zeta_n$ are $(n-1)$ -times differentiable complex valued functions of t , $p = d/dt$ is the symbol of differentiation. The following is of intrinsic interest.
 Theorem 1: If the coefficients of (1) are defined, continuous and real on (q_1, q_2) , then there exists a fundamental system of solutions which do not become zero at any point of a closed subinterval given on this interval. The main result of the paper is: Theorem 2: If the coefficients of (1) are defined, continuous, and real on the interval (q_1, q_2) , then on any closed subinterval belonging to (q_1, q_2) there exists a system of $(n-1)$ -times differentiable functions $\zeta_1(t), \dots, \zeta_n(t)$ which,

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in view of (2):

$$\begin{aligned} x &= z_1 + \dots + z_n, \\ \frac{dx}{dt} &= \zeta_1 z_1 + \dots + \zeta_n z_n, \\ \frac{d^{n-1}x}{dt^{n-1}} &= [(\zeta_1 + p)^{n-1} \zeta_1 | z_1 + \dots + [(\zeta_n + p)^{n-1} \zeta_n | z_n \end{aligned} \quad (3)$$

take equation (1) into a system of diagonal form

$$z_i = \zeta_i z_i, \quad i = 1, \dots, n. \quad (4)$$

Orig. art. has: 19 formulas.

ASSOCIATION: none

SUBMITTED: 18Jan62

DATE ACQ: 07May64

ENCL: 00

SUB CODE: MA

NO REF SOV: 002

OTHER: ,000

Card 3/3

MIKHAYLOV, F.A., doktor tekhn. nauk

Use of a canonic transformations method in the choice of the
structure of a nonstationary linear system. Trudy MAI no.155:
37-59 '64. (MIRA 17:11)

RYMIN, Vladislav Ivanovich; MIRILAYLOV, F.A., prof., D.Kh.Eng.
nauk, retired; SAMSONOVA, M.T., prof.

[Principles of automation and the automation of operations in municipal engineering] Osnovy avtomatizatsii i avtomatizatsionnoy upravleniya v stroitel'stve. Moscow, Vysshaya shkola, 1977. 112 p. 21 cm.

MIKAYLOV, P. A.

"Artificial Pneumothorax in Tuberculosis of the Lungs," Proc. Tuber., No. 1,
1948. Prof.

MIKHAYLOV, F. A. Prof

PA 31/49T39

USSR/Medicine - Antigens and Antibodies
Medicine - Blood, Cells

Nov 48

"Antibodies Against Cell Elements," Prof F. A.
Mikhaylov, Chair of Tuberculosis, Moscow Med Inst, Min
Pub Health RSFSR, 1 p

"Klin Med" Vol XXVI, No 11

Considers there is a relationship between development
of cirrhotic processes in liver and spleen and
presence in patients' blood of antibodies which act
against their own cell elements. These antibodies
resemble those responsible for destruction of patho-
genic microbes entering human organisms.

31/49T39

MIKHAYLOV, F. A.

"The Centerizing of Junctional Area in Cases with Negative Pressure in the Pleural Cavity," Probl. Tuberc., No. 2, 1949. Moscow Municipal T. B. Inst., -closed-.

MIKHAYLOV, N. A.

"The Function of the Nervous and Muscular Systems of the Lungs," Klin. Med.
27, No. 1, 1949. Prof., Chair of Tuberculosis, Moscow Med. Inst., Ministry of
Health RSFSR, -c1949-.

MIKHAILOV, F. A.

MIKHAILOV, F. A.

Artificial pneumothorax and atmospheric pressure. Probl. tuberk.,
Moskva No. 3, May-June 50. p. 26-31

1. Of the Department of Tuberculosis of Moscow Medical Institute
of the Ministry of Public Health RSFSR.

CLML 19, 5, Nov., 1950

MIKHAYLOV, F. A.

Answer to Tret'jakov's article, inaccurate method of quantitative determination of eosinophils in Mikhailov's tuberculin-eosinophile test. Probl. tuberk., Moskva no.4:56-58 July-Aug. 1950. (CML 20:1)

MIKHAYLOV, F.A. professor; DOT, Z.I., redaktor; SEREBRYANIKOVA, Ye.,
tekhnicheskii redak

[Tuberculosis] Tuberkulez. 2-e izd. Moskva, Gos.izd-vo meditsinskoi
lit-ry, 1951. 71 p. [Microfilm] (MLRA 8:9)
(Tuberculosis)

MIKHAYLOV, F.A.; GARVEY, H.N., redaktor; KARTSEVA, K., tekhnicheskii re-
daktor:

[Theory and practice of pneumothorax treatment] Teoriia i praktika
lecheniia pnevmotoraksa. Moskva, Gos.izd-vo med.lit-ry, 1952.
344 p. (MIRA 8:5)
(Pneumothorax)

MIKHAYLOV, F.A.; ANTONOV, Yu.V.

Pulmonary contractibility and its significance in respiration. Klin.
med., Moskva 30 no.8:18-21 Aug 1952. (CML 23:2)

1. Professor for Mikhaylov. 2. Of Moscow Municipal Scientific-Research
Tuberculosis Institute (Director -- Prof. V. L. Kynis) and of Ryazan'
Medical Institute imeni Academician I. P. Pavlov.

MIKHAYLOV, P.A.

Application of phthivazide in pulmonary tuberculosis. Probl. tuberk.,
Moskva no.3:73-75 May-June 1953. (CMLL 15:1)

1. Professor. 2. Of Moscow Municipal Scientific-Research Tuberculosis
Institute (Director -- Prof. V. L. Eynis).

MIKHAYLOV, F.A.

MIKHAYLOV, F.A., professor (Moskva)

~~Changes in the relationship of tuberculosis to nontuberculous diseases.~~
Klin. med. 32 no.12:13-19 D '54. (MLA 8:3)

1. Iz Moskovskogo gorodskogo nauchno-issledovatel'skogo tuberkuleznogo instituta.

(TUBERCULOSIS, epidemiology
in Russia, changes of incidence in relation to other dis.)

MIKHAYLOV, F.A.; SMOLYANSKAYA, A.Z. (Moskva)

Transmission of Mycobacteria tuberculosis from patient to patient.
Klin.med. 34 no.12:7-11 D '56. (MLRA 10:2)

1. Iz Moskovskoy gorodskoy tsentral'noy tuberkuleznoy bol'nitsy
(glavnyy vrach V.L.Kynis)
(TUBERCULOSIS, transmission
prev. with isoniazid)
(ISONIAZID, ther. use
prev. of tuberc. transm.)

М. А. ХАЙЛОВ, Е. А.
МИХАЙЛОВ, Е. А., prof.; MEZLIN, S. Ye. (Moskva)

Forty years of Soviet phthisiology. Klin.med. 35 no.10:35-42 O '57.
(MIRA 11:2)

(TUBERCULOSIS, PULMONARY, prev. & control
in Russia, progr. (Rus))

MIKHAYLOV, F.A., prof. (Moskva)

"Chemotherapy in tuberculosis" by M.A. Klebanov, P.O. Drabkina.

Reviewed by F.A. Mikhailov. Vrach.delo no.1:1337 D '58.

(MIRA 12:3)

(TUBERCULOSIS)

(KLEBANOV, M.A.)

(DRABKINA, P.O.)

MIKHAYLOV, F.A., prof. (Moskva)

Atelectasis. Vrach.delo no.11:1163-1169 N'58
(LUNGS--COLLAPSE)

(MIRA 12:1)

MIKHAYLOV, F.A., prof. (Moskva)

"Academician Feofil Gavrilovich Ianovskii as a phthisiologist" by
A.M.Barenboim. Reviewed by F.A.Mikhailov. Klin.med. 36 no.1:159-160
Ja '58. (MIRA 11:3)
(IANOVSKII, FEofil GAVRILOVICH) (BARENBOIM, A.M.)

AL', G.E., doktor med.nauk; AMOSOV, N.M., prof.; ANTELAVA, N.V., prof.;
BOGUSH, L.K., prof.; VOZNESENSKIY, A.N., prof.; VIL'NIANSKIY,
L.I., kand.med.nauk; LAPINA, A.A., prof.; MASSINO, S.V., doktor
med.nauk; MIKHAYLOV, P.A., prof.; RABUKHIN, A.Ye., prof.;
KHRUSHCHOVA, T.N., prof.; SHAKLEIN, I.A., prof.; YABLOKOV, D.D.,
prof.; MYNIS, V.L., prof., zasluzhennyy deyatel' nauki, otv.red.;
KORNEV, P.G., prof., red.; KUDRYAVTSEVA, A.I., prof., red.
[deceased]; LAPINA, A.I., red.; LEBEDEVA, Z.A., kand.med.nauk,
red.; STRUKOV, A.I., prof., red.; SHEBANOV, F.V., prof., zaslu-
zhennyy deyatel' nauki, red.toma; GRINSHPUNT, Ye.M., red.; LYUD-
KOVSKAYA, M.I., tekhn.red.

[Multivolume manual on tuberculosis] Mnogotomnoe rukovodstvo
po tuberkulezu. Moskva, Gos.izd-vo med.lit-ry. Vol.2. [Tuber-
culosis of the respiratory organs] Tuberkulez organov dykhanija.
Red.toma A.E.Rabukhin i F.V.Shebanov. Book 2. 1959. 408 p.

(MIRA 13:5)

1. Chleny-korrespondenty AMN SSSR (for Antelava, Bogush, Yablokov,
Strukov). 2. Deystvitel'nyy chlen AMN SSSR (for Kornev).

(TUBERCULOSIS)

MIKHAYLOV, F.A., prof. (Moskva)

Loeffler's syndrome. Klin.med. 37 no.12:20-32 D '59.

(MIRA 13:4)

1. Iz Moskovskoy gorodskoy tsentral'noy klinicheskoy tuberkuleznoy
bol'nitsy (glavnyy vrach - prof. V.L. Eynis).
(LUNGS--DISEASES)
(EOSINOPHILES)

MIKHAYLOV, F.A., prof. (Moskva)

Hemoptysis in pulmonary tuberculosis. Klin.med. 38 no.10 140-
143 0 '60. (MIRA 13:11)

1. Iz Moskovskoy gorodskoy tsentral'noy klinicheskoy tuberkulez-
noy bol'nitsy (glavnyy vrach - prof. V.L. Eynis).
(TUBERCULOSIS) (HEMORRHAGE)

39624
S/194/62/300/004/003/003
0295/0003

1000

AUTHORS: Tsepelev, A. I., Larionov, N. I. and Mikhaylov, P. S.

TITLE: The influence of ultrasound on the galvanic-coating process

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 4, 1962, abstract 4-5-40g (V sb. Primeneniye ultrazvukust. k issled. veshchestva. no. 14, M., 1962, 227-230)

TEXT: It is established that ultrasound of 22 kc/s enables one to increase the current density by 2 - 3 times and to carry out the nickel-plating process at a lowered temperature. The optimum ultrasonic intensity for the largest output of chromium for a given current is determined. The magnetostrictor is so placed that ultrasound propagates parallel to the surface of the object. The process of degreasing of the object before coating was intensified by ultrasound. 2 references. [Abstracter's note: Complete translation.]

Card 1/1

MIKHAYLOV, F.I., inzh.

New type of hinged stern propeller units for shallow-draft ships. Rech.
transp. 18 no.3:24-27 Mr '59. (MIRA 12:4)
(Propellers)

MIKHAYLOV, F.^I, inzh.

Full-scale testing of small-board paddle wheels. Rech. transp.
19 no.10:29-31 0 '60. (MIRA 13:11)
(Paddle wheels--Testing)

MIKHAYLOV, F.I.; GOFMAN, N.L.

Sectional plank roads. Rats. 1 izobr. predl. v stroi. no.2:91-93
'57. (MIRA 11:1)

(Roads, Plank)

MIKHAYLOV, F.I.; GOFMAN, N.L.

Aerial skidding of logs. Rast. i izobr. predl. v stroi. no.2:93-96
'57. (MIRA 11:1)

(Lumbering)

SOV/118-55-3-11/11

11(4)

AUTHOR: Kuz'min, N.I., and Mikhaylov, P.I., Engineers

TITLE: Elastic Containers for Liquid Loads (Elastichnyye kontey-
nery dlya zhidkikh грузов)

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, 1969,
Nr 3, pp 61-63 (USSR)

ABSTRACT: This article briefly surveys types of elastic containers
used for transporting oil products in certain Western
countries including Sweden and Great Britain. There are
4 photographs and 1 diagram.

Card 1/1

GERSHKOVICH, B.M., inzh.; MIKHAYLOV, F.I., inzh.

Device for determining the abrasion of materials. Stroi. mat.
10 no.2:9-10 F '64. (MIRA 17:6)

MIKHAYLOV, Fedor Kuz'mich; SHAMSHATOV, Ibragim Shamshatovich;
~~SAVOS'KO, V.K.~~, kand. ist. nauk, otv. red.; LEVIN, P.L.,
red.

[Popular movement for the reclamation of the virgin lands in
kazakhstan, 1953-1960] Narodnoe dvizhenie za osvoenie tselin-
nykh zemel' v Kazakhstane, (1953-1960 gody). Alma-Ata, 1zd-
vo AN Kaz.SSR, 1964. 359 p. (MIRA 17:5)

USSR/Chemistry - Soda Production

MIKHAYLOV, F. K.

FD 175

Card 1/1

Author : Mikhaylov, F. K. Cand Tech Sci; Ginzburg, D. M. Cand Chem Sci; and N. I. Tsofin

Title : The heat conductivity of carbonate rocks and of calcium oxide in lumps

Periodical : Khim. prom. 3, 44-46 (172-174), April-May 1954.

Abstract : The average heat conductivities of samples of chalk, limestone, and calcium oxide from chalk used at USSR soda plants have been determined. Formulas for the calculation of the true heat conductivities of these samples are given. These formulas can be used for samples of the materials investigated derived from other deposits, if the volumetric weights are close. The temperature conductivities of the 3 materials have been computed. Illustrated by 3 figures. Data are listed in 4 tables. 7 USSR references are appended, 2 of them to foreign books translated into Russian.

Institution : All-Union Institute of the Soda Industry

MIKHAYLOV, F.K., kandidat tekhnicheskikh nauk.

Ammonium method for better utilisation of raw materials in the
production of calcined soda. Khim.prom.no.7:391-393 O-N '56.

(MLRA 10:1)

1. Vsesoyuznyy institut sodovoy promyshlennosti.
(Ammonia) (Sodium carbonates)

MIKHAYLOV, F.K.; VOLGOVA, L.M.; SHEREMET, YEVA, G.I.

Kinetics of zinc sulfide nanocrystal formation at high temperatures.
Ukr. khim. zhurn. 1986, 32(1), 1-4. (Ukr.)

1. Nanokristallov sulfida tsinka pri vysokikh temperaturakh.

S/137/60/000/012/006/041
A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 12, p. 107,
28880

AUTHORS: Mikhaylov, F.M., Karmanova, Ye.G.

TITLE: Flake Type Cracks in Large-Size Cylindrical-Shaped Forgings

PERIODICAL: Tr. Nauchno-tekhn. o-va chern. metallurgii, 1959, Vol. 15, pp.
122 - 130

TEXT: During ultrasonic control of large-size forgings internal defects were revealed. The cutting of disks out of the deficient areas, macro and micro-structural analysis and testing of mechanical properties lead to the following conclusions: The basic cause for large flake-type cracks in the forgings is the joint effect of hydrogen saturation of the steel and of the concentration of zonal thermal stresses on one side of the forging. White spots revealed on the fracture of specimens that were cut out of H₂-saturated steel, are formed during the moment of the specimen breakdown and can be called "fracture" flakes. This explains the high σ_b value of the hydrogen-saturated metal; this σ_b value can

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S/137/60/000/012/006/041
A006/A001

Flake Type Cracks in Large-Size Cylindrical-Shaped Forgings

not be attained in the case of cracks appearing in the specimen prior to the tensile test. Rapid tensile testing of specimens cut out of the sections of forgings, is an indirect method of evaluating the hydrogen saturation of the forging metal.

M.Ts.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

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(ANKLE,

*distribution of inject. material from tibiotarsal joint)

(INJECTIONS,

*distribution of inject. material from tibiotarsal joint)